

Cooling mode:

Table.1

Information requirements for air-to-air conditioners							
Model(s): KMF-140 DVN4; Test matching indoor units form, Duct : 2×KPDF-28 DN4.0+2×KPDF-45 DN4.0;							
Outdoor side heat exchanger of air conditioner:air							
Indoor side heat exchanger of air conditioner:air							
Type:compressor driven							
If applicable:driver of compressor:electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.2	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	221.8	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	14.206	kW	$T_j=+35^\circ\text{C}$	$EER_d$	2.31	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	10.193	kW	$T_j=+30^\circ\text{C}$	$EER_d$	4.3	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	6.758	kW	$T_j=+25^\circ\text{C}$	$EER_d$	7.49	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	5.286	kW	$T_j=+20^\circ\text{C}$	$EER_d$	12.21	--
Degradation co-efficient for air conditioners(*)							
	$C_{dc}$	0.25	--				
Power consumption in modes other than "active mode"							
Off mode	$P_{OFF}$	0.015	kW	Crankcase heater mode	$P_{CK}$	0.01	kW
Thermostat-off mode	$P_{TO}$	0.057	kW	Standby mode	$P_{SB}$	0.015	kW
Other items							
Capacity control	variable			For air-to-air air conditioner:air flow rate,outdoor measured	--	5000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	71	dB				
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)				
Contact details							
(*)If $C_{dc}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25							
Where information relates to multi-split air conditioners,the test result and performance data may be obtained on the basis of performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer							

Heating mode:

Table.2

Information requirements for heat pumps							
Model(s): KMF-140 DVN4; Test matching indoor units form, Duct : 2×KPDF-28 DN4.0+2×KPDF-45 DN4.0;							
Outdoor side heat exchanger of air conditioner:air							
Indoor side heat exchanger of air conditioner:air							
Indication if the heater is equipped with a supplementary heater:no							
If applicable:driver of compressor:electric motor							
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.2	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.8	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	7.925	kW	$T_j=-7$	$COP_d$	2.65	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	4.804	kW	$T_j=+2$	$COP_d$	4.06	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	3.45	kW	$T_j=+7$	$COP_d$	6.02	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	3.597	kW	$T_j=+12$	$COP_d$	7.8	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	8.312	kW	$T_{biv}$ =bivalent temperature	$COP_d$	2.65	--
$T_{OL}$ =operation temperature	$P_{dh}$	7.925	kW	$T_{OL}$ =operation temperature	$COP_d$	2.36	--
Bivalent temperature	$T_{biv}$	-7	°C				
Degradation co-efficient for heat pumps(**)							
	$C_{dh}$	0.25	--				
Power consumption in modes other than "active mode"				Supplementary heater			
Off mode	$P_{OFF}$	0.015	kW	Back-up heating capacity(*)	$el_{bu}$	0.9	kW
Thermostat-off mode	$P_{TO}$	0.009	kW	Type of energy input			
Crankcase heater mode	$P_{CK}$	0.010	kW	Standby mode	$P_{SB}$	0.015	kW
Other items							
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	--	5000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	71	dB				
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)				
Contact details							
(*)							
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25							
Where information relates to multi-split heat pumps,the test result and performance data may be obtained on the basis of performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer							

Cooling mode:

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Information requirements for air-to-air conditioners							
Model(s): KMF-140 DVN4;							
Test matching indoor units form, cassette : 2×KCIF-28 DN4.0x2+2×KCIF-45 DN4.0;							
Outdoor side heat exchanger of air conditioner:air							
Indoor side heat exchanger of air conditioner:air							
Type:compressor driven							
If applicable:driver of compressor:electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P <sub>rated,c</sub>	14.0	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	236.6	%
Declared cooling capacity for part load at given outdoor temperatures T <sub>j</sub> and indoor 27/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T <sub>j</sub>			
T <sub>j</sub> =+35°C	P <sub>dc</sub>	13.99	kW	T <sub>j</sub> =+35°C	EER <sub>d</sub>	3.07	--
T <sub>j</sub> =+30°C	P <sub>dc</sub>	10.482	kW	T <sub>j</sub> =+30°C	EER <sub>d</sub>	5.65	--
T <sub>j</sub> =+25°C	P <sub>dc</sub>	6.783	kW	T <sub>j</sub> =+25°C	EER <sub>d</sub>	7.5	--
T <sub>j</sub> =+20°C	P <sub>dc</sub>	5.6	kW	T <sub>j</sub> =+20°C	EER <sub>d</sub>	10.01	--
Degradation co-efficient for air conditioners(*)							
	C <sub>dc</sub>	0.25	—				
Power consumption in modes other than "active mode"							
Off mode	P <sub>OFF</sub>	0.016	kW	Crankcase heater mode	P <sub>CK</sub>	0.010	kW
Thermostat-off mode	P <sub>TO</sub>	0.073	kW	Standby mode	P <sub>SB</sub>	0.016	kW
Other items							
Capacity control	variable			For air-to-air air conditioner:air flow rate,outdoor measured	—	5000	m <sup>3</sup> /h
Sound power level,outdoor	L <sub>WA</sub>	71	dB				
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)				
Contact details							
(*)If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25							
Where information relates to multi-split air conditioners,the test result and performance data may be obtained on the basis of performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer							

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Indoor side heat exchanger of air conditioner:air							
Idication if the heater is equipped with a supplementary heater:no							
If applicable:driver of compressor:electric motor							
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P <sub>rated,h</sub>	16.0	kW	Seasonal space heating energy efficiency	η <sub>s,h</sub>	175.4	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T <sub>j</sub>				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T <sub>j</sub>			
T <sub>j</sub> =-7°C	P <sub>dh</sub>	8.158	kW	T <sub>j</sub> =-7°C	COP <sub>d</sub>	2.6	--
T <sub>j</sub> =+2°C	P <sub>dh</sub>	5.477	kW	T <sub>j</sub> =+2°C	COP <sub>d</sub>	4.34	--
T <sub>j</sub> =+7°C	P <sub>dh</sub>	3.54	kW	T <sub>j</sub> =+7°C	COP <sub>d</sub>	5.73	--
T <sub>j</sub> =+12°C	P <sub>dh</sub>	43.497	kW	T <sub>j</sub> =+12°C	COP <sub>d</sub>	8.68	--
T <sub>biv</sub> =bivalent temperature	P <sub>dh</sub>	8.158	kW	T <sub>biv</sub> =bivalent temperature	COP <sub>d</sub>	2.6	--
T <sub>OL</sub> =operation temperature	P <sub>dh</sub>	8.846	kW	T <sub>OL</sub> =operation temperature	COP <sub>d</sub>	2.6	--
Bivalent temperature	T <sub>biv</sub>	-7	°C				
Degradation co-efficient for heat pumps(**)							
	C <sub>dh</sub>	0.25	—				
Power consumption in modes other than "active mode"				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.016	kW	Back-up heating capacity(*)	elbu	0.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.011	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.010	kW	Standby mode	P <sub>SB</sub>	0.016	kW
Other items							
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	—	5000	m <sup>3</sup> /h
Sound power level,outdoor	L <sub>WA</sub>	71	dB				
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)				
Contact details							
(*)							
(**)If C <sub>dh</sub> is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25							
Where information relates to multi-split heat pumps,the test result and performance data may be obtained on the basis of performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer							